

AERATED VAULT LATRINES



Function: This building provides lavatory facilities for the troops and trainers who are using the range.

Design Drawings: See ROCA Details in the Appendix of this document.

Siting: Latrines should be located near the major range facilities; however, they must be a minimum of 30 meters (100 feet) from the mess area.

Aerated Vault Latrines: If a water supply is not available, an aerated vault latrine with compressor or dry vault with holding tank may be used; in remote areas, a composting toilet may be used. Some installations may wish to include comfort heating. This latrine will accommodate a training unit of up to 190 men and 35 women.

Size:	18.6 square meters (200 square feet)
Occupancy:	190 men and 35 women
Foundation:	Concrete slab-on-grade with turned-down edges
Shell:	Structural steel frame with metal siding or reinforced split-faced CMU
Roof:	SSMR on wood trusses with batt insulation
Doors:	Insulated hollow metal
Interior Finishes:	Painted metal siding or CMU
HVAC:	No Heating or Air Conditioning – ventilation only
Wall exhaust fan:	50 cfm per water closet (Men's)
Wall exhaust fan:	50 cfm per water closet (Women's)
Roof exhaust fan:	100 cfm
Special Lighting:	Red lens or red lamps
Special Switching:	See Night Operations Lighting paragraph
Lightning Protection:	None
Electrical Service:	120/240Vac, single phase, 3-wire secondary entering and leaving the building underground in rigid steel conduits
Receptacles:	Receptacles shall be GFCI, 120V; 20A duplex outlets located a minimum of 305 mm (12") above the finished floor.

Communications: None

Electrical Service: The Aerated Vault Latrine is supplied via a main breaker power distribution panel that has separate circuits for the lighting and convenience outlets.

Grounding: Grounding is required for safety. Building electrical system grounding will consist of one or more ground rods connected to the service panel in accordance with NFPA 70 and all applicable standards.

Night Operations Lighting. To prevent interference with specialized equipment used during night operations, red lenses or red lamps must be provided in addition to standard lighting if the following conditions exist.

- Night training will be performed
- ROCA buildings are near the firing positions
- ROCA building has windows that cannot be covered.

Separate switching for the standard and red lighting shall also be provided, located near points of egress.